

NORTHERN SAN DIEGO COUNTY

W6NWG

Scope

THE PALOMAR AMATEUR RADIO CLUB, INC.
POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

W6NWG/R 146.730 (-)
449.425 (-)
145.050 (Pkt)

VOL. XXIV, NO., 1

1936 - 1989

JANUARY 1989

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRES: Mac McCarthy, NH6EW, Oceanside 945-7391
SECRETART: Nash Williams, W6HCD, Bonsall 728-3574
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

- PRESIDENT'S MESSAGE -

No word is good word, and besides, I'm all messaged out.

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the CAFETERIA at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido Ave. in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome. MEETINGS ARE NOT A FUNCTION OF THE VISTA UNIFIED SCHOOL DISTRICT AND ARE NOT SANCTIONED BY THE SCHOOL DISTRICT BOARD OF TRUSTEES. See!

JANUARY CLUB MEETING

The program for the first meeting of the new year will be presented by Bob Rose, KG6KU, who will tell us about radio wave propagation via the ionosphere. Bob is the developer of a MUF computer program. The Club via W9FQN will have some old ham radio magazines and some 12 and 24 drawer parts cabinets for sale at the meeting. Coffee by NH6EW. Tasties by those of us who remember to bring them - don't forget.

MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is \$12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are \$12 for the first family member, and \$9.00 for each subsequent member at the same address. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530. Ads and other material for Scope to PO Box 73, Vista 92083 by Wed. two weeks before the club meeting.

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the officers of the Club and the Chairmen of its committees, meets at 7:30 p.m. on the second Thursday after the club meeting at the home of various of its members. The January meeting will be at the home of WB6IQS.

At the December meeting at the home of KB6NMK, the Committee heard and approved the Minutes of the last meeting; and the Treasurer's Report. The Committee decided to hold the next club picnic at Dixon Lake in Escondido; reaffirmed the policy of providing an honorarium to non-member speakers; discussed the "grunge", intermod, and desense problems on the 146.730 repeater; reaffirmed and amplified the club policy on operation of the ad hoc Survivors' Assistance Committee; and enjoyed the tasties provided by the outgoing Secretary/hostess. A dandy time was had by all.

AMATEUR RADIO POSTAGE STAMP REPLICA PINS

The Club still has for sale (\$5 a shot) some of the amateur radio postage stamp replica pins. For these attractive pins see Ron, WI6B or W9FQN.

DECEMBER CLUB MEETING

At the December club meeting, committee reports were heard. No nominations were received from the floor, and the slate of officers listed in last month's Scope and in the masthead hereof was elected by acclamation. Lanny Goodman, N6CEJ, gave an excellent presentation on how to use rock climbing equipment for tower climbing. The coffee and tasties were courtesy of Mac, NH6EW, and all of us good guys who helped out by bringing the no-cal goodies. 59 members and 22 guests signed in.

FROM THE ARRL LETTER

The ARRL has filed extensive comments with the FCC in response to the Commission's proposed reorganization of the Amateur Radio rules (PR Docket 88-139). Annexed to the League's comments was a complete rewrite of the rules developed by a committee of the ARRL Board of Directors. A copy of the ARRL filing and proposed text of the rewrite of the rules will be received by each ARRL Letter recipient. Others may request a copy by sending a 9" X 12" SASE with \$125 postage to ARRL HQ. The Club has a copy. Any club member wishing to inspect it may do so by contacting W9FQN.

Wayne Overbeck, N6NB, who was opposed by Carl Pagel, N6BVU, was reelected Vice Director of the ARRL S.W. Division.

THE 220 CLUB OF SAN DIEGO WELCOMES PARC MEMBERS ON WD6HFR/R, ITS 224.900 MHZ REPEATER, which is co-located with W6NWG/R at the PARC site on Mt. Palomar; and, like W6NWG/R, has battery back up. Feel free to use it.

VOLUNTEER EXAMINER PROGRAM

At the December tests our PARC VE team gave 10 test elements to six applicants, who passed a total of eight elements. Everyone got something!

Our test crew was: KI6JM reception; WA6HYB CW exams; W6SAX, W6KCB, and N6NNI VES. Paperwork by N6NNI and K6HAV.

Congratulations to club members Mal Douglas, N6CDA, who is now Amateur Extra Class; Dan Parnell, N6RKD, now Advanced; and new PARC member Walt Bloodgood from no license to Technician.

We miss VEs Jane Rice, AD6Z, a very recent silent key; and Mike Hoffman, KD3HN, off to a new duty station. de K6HAV

FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind the City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month starting at 10:00 a.m.

Examinations are also given on the 1st Saturday in El Cajon, the 3rd in Normal Heights, the 4th in Chula Vista, and the last Saturday in Escondido. Applicants must send a S.A.S.E., a completed, signed FCC Form 610 (NO PHOTO-COPIES) and copies of license(s) and Certificate(s) of Successful Completion, if any, to SANDARC-VEC, Post Office Box 2456, La Mesa, CA 92044 10 days before the test date. Bring ORIGINAL licenses and Certificates.

EMPLOYMENT OPPORTUNITY

TV servicer needed for fast growing Encinitas company. Road position open (home service). Will consider full or part time positions. Light technical background required. Call Paul, KZ6X, 436-2900 .

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UPGRADE: Mal Douglas, N6CDA, to Amateur Extra; Dan Parnell, N6RKP, to Advanced; Lane Arbuthnot, KC6AST, to Technician; Walt Bloodgood to Technician (first license). Congratulations.

WELCOME GNU CLUB MEMBERS: Ferman Blalock, W7RYF, La Mesa; Leonard Jacobsen; Dave Richards, WA6AIW, Vista; Russ Warner, W6QQA, Escondido; Jerry Lounsbury, N6PKZ, Coronado; Arnold Senterfitt, W6ESV, San Diego; Dave Dombrowski, KO6Y, Chula Vista (2 yrs.); H.C. Chuck Pierce, W6MTX, Dana Point; Gerry Sandford, Del Mar; Jim Gesner, W6ZYW, San Clemente (2 yrs.); Ken Harvey, K6ICT El Cajon (2 yrs); Ed Null, WB6WQI, Vista; Walt Bloodgood, Vista; Arnold Senterfitt, W6ESV, San Diego; O.C. Cartwright, Amarillo, Tx.

RENUDE MEMBERS: Kerry Banke, N6IZW (3 yrs.); Henry Kirschner, WB0YCQ; Don Clark, KB6QEW; R.F. Krist, W6KTE; Joe LaPointe, WB6HMY (2 yrs); Bob Rice, KS6S; Richard Payne, N6RKD; Jerry Lounsbury, N6PKZ.

NEW CALLSIGNS: Dave Dutcher, AA6KY from KB6ZIM. Leo Wagner, N6TUR from WB6ISV; Don Tippit N6TRS from KB6OXS. Lane Arbuthnot KC6AST, his first call. Congratulations.

CHANGES IN MEMBER INFORMATION: When you up-grade, get a gnu callsign, change your address or name, please let us know so that it may be noted in the Scope and in the Club records. Our crystal ball has never quite lived up to the glowing ads which enticed us to buy it in the first place.

REPEATERS

THREE REPEATERS, two W6NWG/R, are owned and operated by the Club. One has an input of 146.130 MHz and an output of 146.730 MHz. Input for another is 444.425 MHz and output is 449.425 MHz. The third, W6NWG, is a packet digipeater on 145.050 MHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users.

CO-LOCATED WITH W6NWG/R is KA6UAI/R on 147.135 (+) which too is available to PARC members during its trial period in the PARC building. Its use as a W6NWG/R overflow machine is encouraged. It has no battery backup.

THE CLUB'S POLICY REGARDING INTERFERENCE ON THE REPEATERS IS to IGNORE IT! Don't give the jammer what he or she craves - notice and attention. Carry on your QSO or sign off or move to simplex, but do NOT acknowledge the crazies. At the same time, try to hear the interfering signal on the input of the repeater and, if possible, determine the direction of the source.

DONATE IT TO THE CLUB if you can't sell it or aren't up to hauling it to the flea markets. The Club will sell it and put the money in the Equipment Fund to buy that new repeater, antenna, or feedline. See any club officer.

POTTER JUNIOR HIGH SAYS THANKS PHIL, WE REALLY HAVE TO LOOK UP TO YOU

The students of Potter Jr. High School would like to thank Phil, WF6L, for his splendid installation of a new tri-band beam at the school. Assisted by Art, WA6IPD, who held the ladder, Phil single-handedly secured and adjusted this monstrous antenna. Phil's wife, Margaret, would have been proud to see Phil scale the ladder, no hands, slipjoint pliers in one hand and a screwdriver in the other (Margaret had, just that morning, shown her hubby how to use the pliers). Phil's cool, calculated movements at the 0' level, without a belt (or a net!), was awe inspiring. At the school, Phil is now referred to as Margaret's first husband. Waytago Phil!

FORESAIL

(That's the spirit, sail!)

Kenwood TS-820S HF xcvr w/DC module, D-104 Silver Eagle mike, manuals, \$375; Swan 500 w/AC supply, spare finals and driver, \$150. Call Russ, W6HZJ, 728-8925.

Auetek QF-1 audio filter, \$20. Call Art, WA6IPD, 728-6834.

Complete RTTY, CW, ASCII setup: AEA CP-1 Computer Patch, Vic-20 computer w/monitor, Datasette, software, all manuals. Call Ralph, K6HAV, 727-5866.

100+ feet of 1/2" alum. jacketed 72 ohm hardline, \$25. Call Dennis, N6KI, 271-6079.

IBM Correcting Selectric II typewriter, Collins R/E single wire ant. tuner 180S-1. Phone Allen, N7AMR, 434-5656.

6146 tubes. Call Glen Schmidt, 727-4004.

Swan Cygnet 260 HF xcvr, \$125; 2M 11-elm beams, \$30 & \$35; new panel meters, \$4 & up; Heathkit mike, \$5; Call Jerry, W6YLA, 758-1134.

Marygold 10W in 45W out 2M amplifier, \$40; AEA Model MBA-RO CW, RTTY, ASCII reader, \$150; RCA Senior Voltohmyst WV-98C w/new probes & book, \$20; BK 501A Semiconductor Curve Tracer, \$15; Sencore FE160 Senior Field Effect Meter (solid state VTVM), \$25. Call Ralph, K6HAV, 727-5866.

Various vacuum tubes, all tested; Probemaster X10 attenuator kits, \$15. Call Sandy, K6HE, 745-6940.

Instant RTTY CW set up. Just add rig up front and op on other end. Vic 20, Hamsoft, MFJ 1228 interface, NEP monitor, Datasette, manuals plus publications and programs on cassette. Reason for selling: Can't type! Trade or sell. Call Mick, W6FGE, 222-3912.

WANTED

MFJ 949 Versatuner. Call Russ, W6HZJ, 728-8925

Flat pack Touch Tone keypad w/flex ribbon and 8-pin header, w/o tone osc. OK. Need pin out info. 12 button telephone format w/* & # symbols req'd or can make do with a 16 button if pin out info available. PIPO type or look alike OK. Also want variometers and variocouplers and similar radio junk from the 20s. Call Mick W6FGE, 222-3912.

For Flying Samaritan honor student, reasonably priced word processor hardware/software. Call Nash, W6HCD, 728-3574.

Schematic for DSI 5612 freq. counter; Icom IC-22A in working condx. Call Dennis, N6KI, 271-6079.

CITY PROVIDES SPACE FOR AMATEUR RADIO IN CARLSBAD SAFETY CENTER

The city of Carlsbad has provided a room for amateur radio communications in its new Safety Center off of El Camino Real 3/4 of a mile north of Palomar Airport Road. The city will do the antenna installation on the roof top. W9FQN visited the Center to survey the situation during a city emergency exercise and found ample room for R.A.C.E.S., a packet installation, and 2M, 220 MHz, and HF (if required) for A.R.E.S. Antenna and coax requirements are being planned. The site is a good radio location, with a long distance, in all directions, to the horizon. Thanks to Frank, WB6HFE, for letting us know about it. The location and facilities could make this a most useful location in time of emergency.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. John is fussy enough to require, not only money but, that you let him in on your name and call sign if you want them on your VERY own badge - like the big guys have.

 JOIN THE ARRL - AND GIVE THE CLUB NUMBER WHEN YOU DO

The American Radio Relay League is the national Amateur Radio entity to which you should belong if you want to support your hobby. If you're not an ARRL member you should be! Who else do you have to lobby for your hobby?

When joining/re-joining the ARRL, do it via the Club which will receive a modest stipend otherwise going to the ARRL. Make your check payable to the Club and get it, with your membership application, to Treasurer Ron, WI6B. If your new ARRL membership application includes the PARC number (1703), the Club will get \$5 from your membership - and -- mo akai issen kakaranai! *****

SURPLUS GOODIES of the electronic persuasion at HIGHWAY COMPANY in the plain, unmarked white building at 305 W. Wisconsin Ave., Oceanside. See their ad in this issue. Alexander Battery Co. West, 520 State St., Escondido, phone 480-4445. has many batteries for HTs and other uses. Aluminum, brass, copper, stainless steel, etc. at Escondido Sales at 1428 Mission Rd., Escondido. Electronic, mechanical, computer parts, nicads at Industrial Liquidators, 683 S. Rancho Santa Fe Rd., San Marcos; and 4887 Convoy St., San Diego, and at Gateway Electronics, 4633 Convoy St. HIGHWAY CO. is our ONLY advertiser in this group.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: The El Cajon ARC ham-computer-electronics swap meet at the Santee Drive-in theater on Woodside Ave at Hwy 67 in Santee at 0700 on the first Saturday of the month.

The General Dynamics ARC swap meet on the 2nd Saturday in Cucamonga in the Gen. Dyn. parking lot east of Haven on Fourth Ave, starting at 0700.

The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month at 0700.

THE PALOMAR AMATEUR RADIO CLUB SPONSORS THE FOLLOWING NETS:

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 MHz (-600 kHz) at 2000 local to handle formal written traffic. Visitors are welcome. Net Managers are KI6ZM & KB6PCF.

THE NORTHERN DISTRICT, SAN DIEGO SECTION AMATEUR RADIO EMERGENCY SERVICE (A.R.E.S.) NET meets on 146.730 MHz each Sunday at 0830 to provide A.R.E.S. and emergency and public service planning information to the members of the Service. Visitors are welcome, when called for after the member roll call.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 MHz each Tuesday (except the 1st Tues. of the month) at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control station.

THE SAN DIEGO COUNTY MICROWAVE NET meets on 146.730 MHz each Monday at 2100. This net is to disseminate microwave information and is open to the old timer and the beginning microwaver. All are welcome. Kerry, N6IZW, is net control station. If you can't check in, at least give us a micro wave.

THE SAN DIEGO COUNTY PERSONAL COMPUTER NET meets on 146.730 MHz each Wednesday evening (except for the 1st Wed. of the month) at 2100 to share information on computers. Chuck, KI6TG, is NCS, and he welcomes those with problems, information, questions, solutions, answers on any type PC.

THE FCC IN GETTYSBURG SAYS:

The last Amateur Radio licenses issued in the 6th call area as of 12/1/88 were: AA6LQ, KJ6OV, N6TUM, KC6AXI.

PLEASE DON'T USE THE HAM BANDS FOR PROGRAM PIRACY

FCC Rules and Regulation, 47 CFR

Part 97, Subpart E: Prohibited Practices
and Administrative Sanctions

"97.116 Amateur radiocommunication for unlawful purposes prohibited.

The transmission of radio communication or messages by an amateur radio station for any purpose, or in connection with any activity, which is contrary to Federal, State or local law is prohibited."

The above quotation from Holy Writ is one of the rules and regulations which govern our radio service. Unlike the rule about business communications (97.110), it is rarely the subject of discussions or arguments on the air. Have you ever heard this rule violated? I have. In fact, I frequently hear amateurs on the air arranging to commit theft. In particular, software piracy: unauthorized copying of copyrighted commercial computer programs.

You may not think that copying software is wrong. You are entitled to that opinion, and I do not intend to try to change your mind. However, it IS "contrary to Federal law" when the program is copyrighted and the copyright holder has not specifically authorized you to distribute it. You are in violation of FCC Rules when you talk about it on the air. Please be aware of this, and think twice before you offer your buddy a copy of MS-DOS or WordPerfect. And if you must pirate software, give amateur radio a break and don't do it by packet radio file transfer!

Thanks for listening, and 73. Paul KB5MU

DOWN THE TOOBE

Our sympathy to Guy, KB6AI, on the loss of his wife Norma who lost a long battle with cancer on December 1.

Thanks to Ivan, W6TET, for letting us know the outcome of his purchase of a scope we advertised in the Scope.

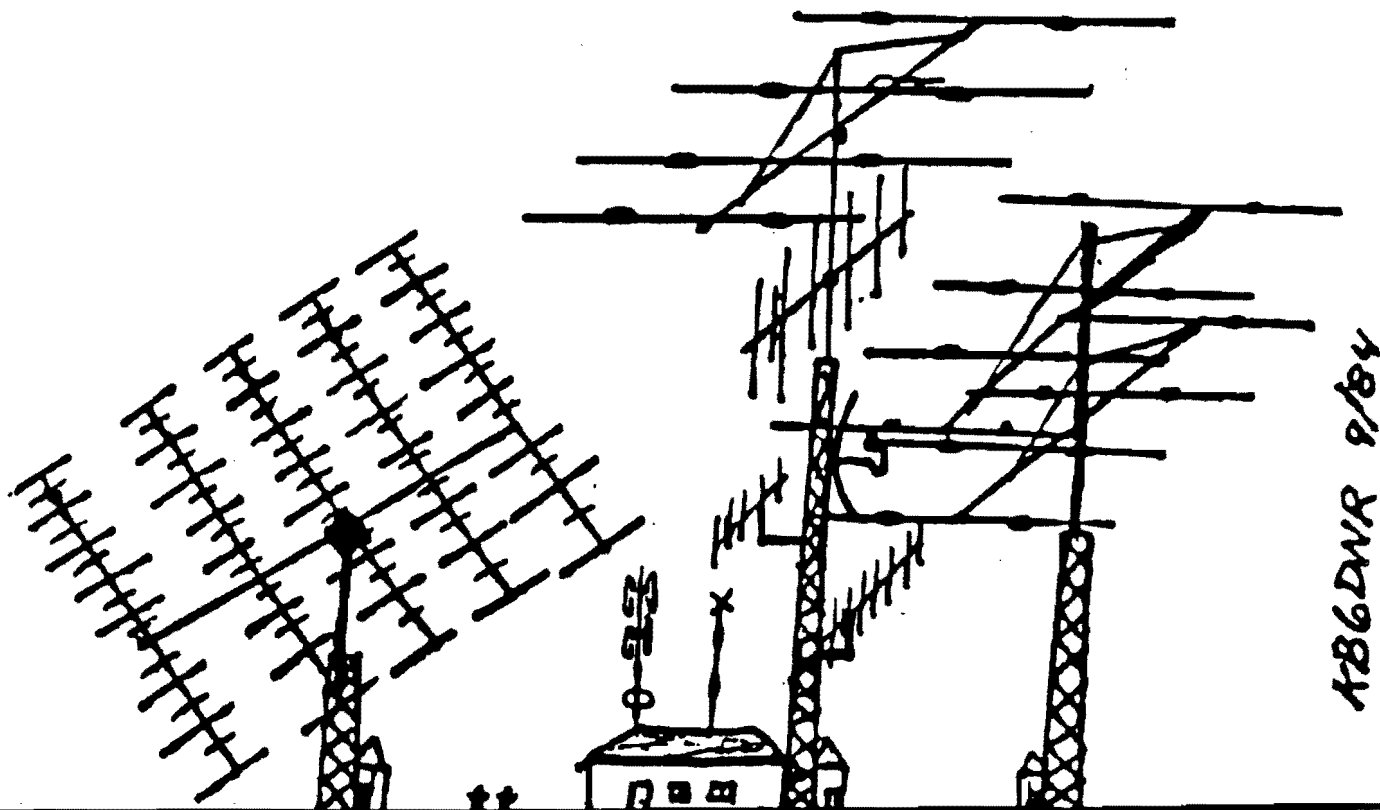
The Sunday morning 2M A.R.E.S. net, (0830 on 146.730 MHz), was started on 146.730 simplex around 1972 before W6NWG/R was put up. Activity on that frequency was encouraged to let folks know that the PARC had been assigned the frequency for its repeater. As W6NWG/R was put into operation the net was continued and has expanded to cover the county. The Club's public service philosophy was, and is, the basis of PARC's sponsorship of this net on W6NWG/R.

George Uminski, K6YGK, will be listed in the next edition of Who's Who in America according to a recent copy of the Technology Development Corp. newsletter DID YOU KNOW...?. George is already listed in Who's Who in the West. Waytago George!

We hope that everyone has a very happy and prosperous 1989; and that you all found that IC-781 under the Christmas tree. 1989 won't have any elections - that's the best gnus of all!

The Scope's special thanks to Jo, KB6NMK, for the fine job she does in taking care of the ads which appear in Scope. Jo gets the current info from the advertisers and sdoes all of the ad makeup and layout work. It really is appreciated, Jo.

"That's all", she wrote!



SURE IT'S NICE BUT NOW I CAN'T AFFORD A RADIO.

HAM RADIO OUTLET

VISIT US AT 5375 KEARNY VILLA RD. SAN DIEGO 92123

OR PHONE US AT (619) 560-4900

WE ARE OPEN FROM 10:00 AM TO 5:30 PM
MONDAY THRU SATURDAY

SEE TOM KM6K, GARY K6CAQ, BRUCE K6JYO, ED W6KUT

HAPPY NEW YEAR

NEW CALLBOOKS ARE IN STOCK

WE STOCK ROHN 25G TOWER SECTIONS IN OUR NEW EXTENDED FACILITIES. WE ALSO PROUDLY SELL US TOWER. IT'S ALWAYS TIME TO UPGRADE. ASK US FOR HELP, WE ARE EXPERIENCED IN TOWER AND ANTENNA INSTALLATIONS. NOW IN STOCK THE NEW YAESU FT411 2METER WALKIE. IT HAS 49 MEMORIES AND MUCH MORE A GREAT BUY AT 359.95



NEXT MONTH ..ICOM DAY

COME JOIN THE GALA AFFAIR ON FEBRUARY 18TH



HAM STICKS

FOR

HF Mobile Operation

WESTCOMM

When these mobile HF antennas were first designed and introduced by WD4BUM they created quite a stir in the amateur antenna industry because of their unique low profile design and outstanding performance. Since that time they have been copied and imitated by other manufacturers but none have improved upon the original HAM STICK design!

These two piece MONOBAND ANTENNAS consist of a hollow fiberglass base section approx. 1/2" dia. with the loading coil wound directly on the fiberglass and covered with PVC shrink tubing. The chrome plated brass base fitting has 3/8 x 24 male threads that fit most amateur mobile mounts.

The top section is a tapered, 17-7 tempered St. Steel, whip which telescopes into the base section for frequency adjustment. It is secured by two set screws.

The assembled, adjusted, antenna will be approx. 7' long. High mounting on the vehicle is desirable and not a problem as the antenna is VERY resilient and will withstand abuse that would destroy conventional metal antennas. No springer guy wiring is required.

PEP RATING 600 WATTS

MODEL	BAND	2:1 BAND WIDTH
9175	75 METERS	10 kc
9140	40 METERS	60 kc
9130	30 METERS	Band
9120	20 METERS	175 kc
9115	15 METERS	350 kc
9112	12 METERS	Band
9110	10 METERS	1 mc

USE OF A QUICK DISCONNECT SUCH AS OUR 009 IS RECOMMENDED

\$15 00
3 or more, 14.00

FOR MARS AND CAP USE 9175
FOR 11 METER (CB) USE 9110.

COLINEAR ANTENNAS THE ULTIMATE PERFORMER

- Honest 4.5db gain
- 1000 watts DC
- Tunable
- 17-7 St.St. tapered top section
- Rugged fiberglass base section reduces flutter
- Length 7 ft. prox.
- 2 METERS -- MODEL 9007
- 220Mhz -- MODEL 9038

\$16 00

5/8 WAVE +3db GAIN MOBILE ANTENNAS

- A TRUE 5/8 WAVE - SHUNT FED ANTENNA
- HONEST 3db GAIN
- Pre-tuned to the band center
- Below 1.5 to 1 SWR over the entire band
- Can be tuned to other nearby frequencies
- Stiff stainless steel whip
- Extra strong 3" magnet
- 15 ft. RG 58 coax PL259-Choice of mounts

RATED AT 150 WATTS

CATALOG NUMBERS

MOUNT	2 METERS	220 Mhz
Magnet	M-100	M-200
Trunk	T-100	T-200
Permanent	P-100	P-200

\$22 50

Add \$2.00 for BNC connector installed

1/4 WAVE MOBILE ANTENNAS

- MAX. GAIN POSSIBLE FOR A 1/4 WAVE ANTENNA!
- Very stiff stainless steel whip
- Chrome plated 2" magnet
- Typical 1.25 to 1 SWR AT resonance Add \$2.00
- Pre-tuned to the center of the band For BNC installed
- 15 ft. RG58 coax with PL259
- Available tuned 100mhz to 500mhz on special order

CATALOG NUMBERS

MOUNT	2M	220Mhz	440Mhz
Magnet	M-300	M-301	M-302
Gutter	G-300	G-301	G-302

\$13 00

RATED AT 300 WATTS

5/8 WAVE +3db GAIN GROUND PLANE

This antenna, when mounted at the same height, will equal (and in many cases out perform) others selling for two and three times its cost!

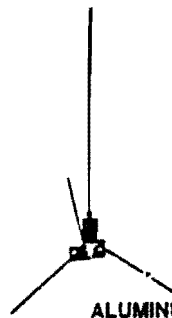
\$19 00

CAT. #GP-1 FOR 2 METERS
CAT. #GP-2 FOR 220Mhz

RATED AT 150 WATTS

Over 4Mhz band width below 1.5 to 1 SWR
DC grounded for static bleed off
Shunt fed matching system for lowest SWR

GP-1 can be set for frequencies from 140 to 170Mhz



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MOUNT & RADIALS

MOUNTS TO ANY MAST 1" TO 1.5"
ALL MOUNTING HARDWARE INCLUDED

HOURS 10 AM TO 5 PM MON THRU FRI 9 AM TO 2 PM SATURDAY

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THE CORNER OF GRAND AND LAS POSAS



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BENEFITS FOR YOU

QST, QSL Bureau, Awards, Low Cost Insurance, Operating Aids, Government Liaison and More.

MEMBERSHIP APPLICATION

*Enter 4-digit code for
sponsoring club, if any:

1 7 0 3

Send to:

**The American Radio
Relay League, Inc.**

225 Main Street
Newington, CT 06111



Name _____

Call _____

Street _____

City _____

Prov./State _____

PC/Zip _____

\$25 in U.S./\$30 in Canada/\$33 elsewhere (U.S. funds)

Persons, age 17 or under or age 65 or over, upon submitting proof of age, may request the special dues rate of \$20 in the U.S. (\$25 in Canada, \$28 elsewhere in U.S. funds)

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

Charge to AMEX, VISA or MC No. _____

Valid from _____ Good through _____

***Note:**

If you are joining the ARRL for the first time and you wish to thank the ARRL-Affiliated Club that introduced you to the ARRL, please enter its 4-digit code (club members can tell you what their code is) in the space provided at the top.

— ELECTRONICS —

SATISFACTION GUARANTEED

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Oceanside, CA 92054

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Tuner-Tuner™**

VLF CONVERTERS

Palomar Engineers

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Escondido, CA 92025

JAN 89

PALOMAR AMATEUR RADIO CLUB ENLISTMENT/REENLISTMENT BLANK

(Cut on dotted line, fill in, include \$\$ and mail to PARC, PO Box 1603, Vista, CA 92083-0530 or hand to Treasurer Ron at Club meeting)

Dues are \$12/year + \$9/year for each add'l family member. Scope included. Dues are prorated: Aug-Sep-Oct \$12, Nov \$9, Dec \$8, Jan \$7, Feb \$6, Mar \$5, Apr \$4, May \$3, Jun \$2, Jul \$1. Consider paying proration of \$____ for balance of this year plus \$12 for next year for total of \$____ or plus \$24 or \$36 for next two/three years for total of \$____/\$____

Name and Call _____

Ham Lic. expir. month and year _____ Address, phone nr., (or changes) _____

ARRL member? YES___ NO___ Remarks, appropriate/inappropriate _____

Include name(s), call(s), and dues of family member(s) residing at same address.

----- (Leopard) -----

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